

Proceedings of the Indian National Science Academy

Vol. 45, Part B, No. 5

October 1979

CONTENTS

	<i>Page</i>
<i>Steroid Biosynthesis</i>	
Comparative Aspects of Steroid Biosynthesis in Fish Thomas Sandor	391
Steroidogenesis in the Corpuscles of Stannius V G Krishnamurthy	407
Steroidogenesis in the Ovary of the Rainbow trout, <i>Salmo gairdneri</i> , during the Reproductive Cycle J G D Lambert and Ch G van Bohemen	414
On Steroidogenic Pathways in Ambisexual Fishes Rudolf Reinboth	421
Androgen Biosynthesis in Teleost and Elasmobranch Fishes D E Kime	429
Interrenal Secretion and Peripheral Production of Cortisone in Eel (<i>Anguilla anguilla</i> L.) Jeanine Leloup-Hatey	436
Biochemical and Functional Aspects of Gonadal Biosynthesis of Steroid Hormones in Teleost Fishes L Colombo, P Colombo Belvedere and Andrea Marconato	443
<i>Histochemistry of Steroidogenic Tissues</i>	
Recent Advances in the Morphology and Histochemistry of Steroid- Synthesizing Cellular Sites in the Gonads of Fish Sardul S Guraya FNA	452
Histochemical Study on the Adrenal Steroidogenic Cells of the Freshwater Teleost <i>Channa punctatus</i> (Bloch) following Hydrocorti- sone Acetate Administration and Hypophysectomy B N Joshi and A G Sathyanesan	462

(Continued on inside back cover)

Contents (Continued from outside back cover)

The Effect of Gonadotropins on the Steroidogenic Potential and Spermatogenesis in the Testis of the Catfish, <i>Clarias batrachus</i> (Linn.)	G P Satyanarayana Rao, V B Nadkarni and M Appaswamy Rao	469
<i>Steroids and Hypothalamo-Hypophyseal System</i>		
Ultrastructure of Gonadotrophs in the Eel following Oestradiol Treatment	Madeleine Olivereau and Pascal Chambolle	478
Different Neuronal Populations of the Nucleus preopticus and their Response to Ovariectomy and Oestradiol Benzoate Treatment with a Note on the Gonadotrops in the Catfish, <i>Clarias batrachus</i> (Linn.)	P D Prasada Rao, Nishikant Subhedar and N Ganesh	483
<i>Steroids and Reproduction</i>		
Role of Protein and Steroid Hormones in Vitellogenesis in the Catfish, <i>Heteropneustes fossilis</i>	P Nath and B I Sundararaj FNA	491
The Role of Steroids in the Control of Oocyte Final Maturation and Ovulation in Yellow Perch (<i>Perca flavescens</i>)	Frederick William Goetz	497
The Role of Steroid Hormones in Sex Recognition during Spawning Behaviour of the Goldfish, <i>Carassius auratus</i> L.	Fumio Yamazaki and Kenichi Watanabe	505
Use of Hormonal Steroids for Artificial Sex Reversal of <i>Tilapia</i>	Rafael D Guerrero III	512
<i>Steroids and Metabolism</i>		
Corticosteroids and Osmoregulation in Fishes	M Dharmamba	515
Hormonal Control of Testicular Cholesterol Levels in the Catfish, <i>Clarias Batrachus</i> (Linn.)	H R Srinivasachar and R Jayashree	526
17 β -Hydroxysteroid Dehydrogenase Activity in the Ovary and Head Kidney of Teleosts, <i>Anabus Testudineus</i> and <i>Ophicephalus Punctatus</i>	S Sen, D Mukherjee, P Chakraborti and S Bhattacharya	534